DEFENSE INFORMATION SYSTEMS AGENCY



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Joint Interoperability Test Command (JTE)

27 Nov 12

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Extension of the Special Interoperability Test Certification of the REDCOM High Density Exchange (HDX)TM Local Session Controller (LSC), with Software Release 4.0 Revision 3 with Specified Patch Group 8 (4.0AR3P8)

References: (a) DoD Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004

- (b) CJCSI 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
- (c) through (g), see Enclosure
- 1. References (a) and (b) establish the Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.
- 2. The REDCOM HDX LSC, Software Release 4.0 Revision 3 with Specified Patch Group 8 (4.0AR3P8) is hereinafter referred to as the System Under Test (SUT). The SUT is certified for joint use in the Defense Information System Network (DISN) as an LSC. The fielding of the SUT is limited to IP version 4 (IPv4) across the DISN. Although the SUT supports Internet Protocol version 6 (IPv6), it was not tested inter-enclave because of test limitations within the network infrastructure. Therefore, inter-enclave IPv6 is not covered under this certification, but intra-enclave use of IPv6 is authorized for use. Any new discrepancy noted in the operational environment will be evaluated for impact on the existing certification. These discrepancies will be adjudicated to the satisfaction of DISA via a vendor Plan of Action and Milestones (POA&M), which will address all new critical Test Discrepancy Reports (TDRs) within 120 days of identification. Testing was conducted using LSC product requirements derived from, Reference (c) and LSC test procedures derived from Reference (d). No other configurations, features, or functions, except those cited within this memorandum, are certified by JITC. This certification expires upon changes that affect interoperability, but no later than 27 March 2015, three years from the date of the original Unified Capabilities Approved Products List memorandum.
- 3. The extension of this certification is based upon Desktop Review (DTR) 2. The original certification, documented in Reference (e), is based on interoperability testing conducted by JITC, review of the vendor's Letters of Compliance (LoC), and DISA Information Assurance (IA) Certification Authority (CA) approval of the IA configuration. Interoperability testing was conducted by JITC, Fort Huachuca, Arizona, from 8 March through 21 May 2010. Adjudication of open TDRs was completed by DISA on 27 March 2012. Verification and Validation (V&V) testing was conducted from 21 February through 4 March and 7 through 18 November 2011.

Review of the vendor's LoC was completed on 10 November 2011. The DISA CA has reviewed the IA Assessment Report for the SUT, Reference (f), and based on the findings in the report has provided a positive recommendation on 20 March 2012. This DTR was requested to certify the SUT to new failover requirements developed by DISA. JITC conducted multi-vendor V&V failover testing from 8 through 19 October 2012 and successfully verified the SUT with Software Release 4.0AR3P8 meets the new failover requirements, which will be included in the next version of the Unified Capabilities Requirements (UCR 2013). Therefore, JITC approves this DTR. The IA posture of the SUT did not change from the configuration approved on 4 September 2012 and documented in Reference (g). Therefore, the IA approval from 4 September 2012 applies to this DTR.

4. The interface, Capability Requirements (CR) and Functional Requirements (FR), and component status of the SUT is listed in Tables 1 and 2. The threshold CR/FRs for LSCs are established by Sections 5.3.2, 5.3.4, 5.3.5, and 5.4 of Reference (c) and were used to evaluate the interoperability of the SUT.

Table 1. SUT Interface Interoperability Status

Interface	Critical	UCR Reference	Threshold CR/FR ¹	Status	Remarks ²
	ı		Line Interfaces		
10Base-X	Yes	5.3.2.6.3	2, 4, 10, 13, 16	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j. Applies to PEIs (voice only).
100Base-X	Yes	5.3.2.6.3	2, 4, 10, 13, 16	Certified	Met threshold CRs/FRs for IEEE 802.3u. Applies to PEIs (voice only).
1000Base-X	No	5.3.2.6.3	2, 4, 10,13, 16	Not Tested	This interface is not offered by the SUT.
2-wire analog	Yes	5.3.2.6.1.6	2, 4, 10, 13,	Certified	Met threshold CRs/FRs for 2-wire analog instruments. Applies to 2-wire secure and non-secure analog instruments, fax, and modem.
BRI	No	5.3.2.6.1.8	2, 4, 10, 13	Certified	Met threshold CRs/FRs for BRI instruments. Applies to voice and clearmode data.
			External Interfaces	;	
10Base-X	No ³	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Certified	Met threshold CRs/FRs for IEEE 802.3i and 802.3j. Applies to AS-SIP trunk.
100Base-X	No ³	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Certified	Met threshold CRs/FRs for IEEE 802.3u. Applies to AS-SIP trunk.
1000Base-X	No ³	5.3.2.4.2	1, 2, 3, 6, 7, 8, 10, 11, 13, 15, 16	Not Tested	This interface is not offered by the SUT.
ISDN T1 PRI NI-2 (ANSI T1.619a)	Yes	5.3.2.4.3	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs. Provides legacy DSN and TELEPORT connectivity.
ISDN T1 PRI NI-2 (ANSI T1.607)	Yes	5.3.2.4.3	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs. Provides PSTN Connectivity
T1 CCS7 ANSI T1.619a	No	5.3.2.12.9	2, 3, 7, 8, 10, 13	Not Tested	This interface is offered by the SUT; however, it was not tested.
T1 CAS (DP, DTMF, MFR1)	No	5.3.2.12.11	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for T1 CAS.
E1 CAS (DP, DTMF, MFR1)	No	5.3.2.12.11	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for T1 CAS.

Table 1. SUT Interface Interoperability Status (continued)

Interface	Critical	UCR Reference	Threshold CR/FR ¹	Status	Remarks ²
			External Interfaces (cont	inued)	
E1 PRI ITU-T Q.955.3	No ⁴	5.3.2.12.10	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for E1 PRI ITU-T Q.955.3. Provides Legacy DSN connectivity in Europe.
E1 PRI ITU-T Q.931	No ⁴	5.3.2.12.10	2, 3, 7, 8, 10, 13	Certified	Met threshold CRs/FRs for E1 PRI ITU-T Q.931. Provides PSTN connectivity in Europe.
			NM		
10Base-X	No ³	5.3.2.4.4 5.3.2.7.2.8	16, 17	Certified	Met threshold CRs/FRs. Verified via LoC.
100Base-X	No ³	5.3.2.4.4 5.3.2.7.2.8	16, 17	Certified	Met threshold CRs/FRs. Verified via LoC.

NOTES:

- 1. The SUT high-level CR and FR ID numbers depicted in the Threshold CRs/FRs column can be cross-referenced in Table 2. These highlevel CR/FR requirements refer to a detailed list of requirements provided in Reference (e), Enclosure 3.
- 2. Detailed information pertaining to open TDRs and associated operational impacts is in Reference (e) Enclosure 2, paragraph 11.
- 3. The SUT must provide a minimum of one of the listed interfaces.4. This interface is conditionally required for deployment in Europe.

LEGEND:			
ANSI	American National Standards Institute	Mbps	Megabits per second
AS-SIP	Assured Services Session Initiation Protocol	MFR1	Multi-Frequency Recommendation 1
BRI	Basic Rate Interface	MLPP	Multi-Level Precedence and Preemption
CAS	Channel Associated Signaling	NI-2	National ISDN-2
CCS7	Common Channel Signaling 7	NM	Network Management
CR	Capability Requirement	PEI	Proprietary End Instrument
DP	Dial Pulse	PRI	Primary Rate Interface
DSN	Defense Switched Network	PSTN	Public Switched Telephone Network
DSS1	Digital Subscriber Signaling 1	Q.931	Signaling Standard for ISDN
DTMF	Dual Tone Multi-Frequency	Q.955.3	ISDN Signaling Standard for E1 MLPP
E1	European Basic Multiplex Rate (2.048 Mbps)	SS7	Signaling System 7
FR	Functional Requirement	SUT	System Under Test
ID	Identification	T1	Digital Transmission Link Level 1 (1.544 Mbps)
IEEE	Institute of Electrical and Electronics Engineers	T1.607	ISDN – Layer 3 Signaling Specification For Circuit
ISDN	Integrated Services Digital Network		Switched Bearer Service For DSS1
ITU-T	International Telecommunication Union –	T1.619a	SS7 and ISDN MLPP Signaling Standard For T1
	Telecommunication Standardization Sector	TDR	Test Discrepancy Report
LoC	Letter of Compliance	UCR	Unified Capabilities Requirements

Table 2. SUT CR and FR Status

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status		
	Assured Services Product Features and Capabilities					
	DSCP Packet Marking	Required	5.3.2.2.1.4	Met ²		
1	Voice Features and Capabilities	Required	5.3.2.2.2.1	Met ^{3, 4, 5}		
-	Public Safety Features	Required	5.3.2.2.2.2	Met		
	ASAC – Open Loop	Required	5.3.2.2.2.3	Met ⁶		
	Signaling Protocols	Required	5.3.2.2.3	Met		
	Signaling Performance	Conditional	5.3.2.2.4	Met		
	Registration, Authentication, and Failover					
2	Registration	Required	5.3.2.3.1	Met		
	Failover	Required	5.3.2.3.2	Met ⁷		
	Product Physical, Quality, and Environmental Factor	ors				
2	Availability	Required	5.3.2.5.2.1	Met		
3	Maximum Downtimes	Required	5.3.2.5.2.2	Met		
	Loss of Packets	Required	5.3.2.5.4	Met		
	Voice End Instruments					
	Tones and Announcements	Required	5.3.2.6.1.1	Met		
	Audio Codecs	Required	5.3.2.6.1.2	Partially Met ⁸		
	VoIP PEI or AEI Audio Performance	Required	5.3.2.6.1.3	Partially Met ⁹		
4	VoIP Sampling Standard	Required	5.3.2.6.1.4	Met		
	Authentication to LSC	Required	5.3.2.6.1.5	Met		
	Analog Telephone Support	Required	5.3.2.6.1.6	Met		
	Softphones	Conditional	5.3.2.6.1.7	Not Tested ¹⁰		
	ISDN BRI	Conditional	5.3.2.6.1.8	Met		
	Video End Instruments					
	Video End Instrument	Required	5.3.2.6.2	Not Met ¹¹		
5	Display Messages, Tones, and Announcements	Required	5.3.2.6.2.1	Not Met ¹¹		
	Video Codecs (Including Associated Audio Codecs)	Required	5.3.2.6.2.2	Not Met ¹¹		
	LSC Requirements	required	3.3.2.0.2.2	110111101		
		Daguirad	5.3.2.7.2.1	Met		
	PBAS/ASAC Requirements Calling Number Delivery Requirements	Required	5.3.2.7.2.2	-		
	LSC Signaling Requirements	Required	5.3.2.7.2.3	Met		
	Service Requirements under Total Loss of WAN Transport	Required Required		Met		
6	Local Location Server and Directory	Required	5.3.2.7.2.4	Met		
	· ·	Required	5.3.2.7.2.5 5.3.2.7.2.7	Met Met		
	LSC Transport Interface Functions LSC to PEI, AEI, and Operator Console Status Verification	Required	5.3.2.7.2.10	Partially Met ¹²		
	Line-Side Custom Features Interference	-				
		Conditional	5.3.2.7.2.11	Not Tested ¹³		
	Loop Avoidance Required 5.3.2.7.3 Met					
	Call Connection Agent Requirements	D : 1	522021			
	CCA IWF Component	Required	5.3.2.9.2.1	Met		
	CCA MGC Component	Required	5.3.2.9.2.2	Met		
	SG Component	Conditional	5.3.2.9.2.3	Not Tested ¹³		
7	CCA-IWF Support for AS-SIP	Required	5.3.2.9.5.1	Met		
	CCA-IWF Support for SS7	Conditional	5.3.2.9.5.2	Not Tested ¹³		
	CCA-IWF Support for PRI via MG	Required	5.3.2.9.5.3	Met		
	CCA-IWF Support for CAS Trunks via MG	Conditional	5.3.2.9.5.4	Not Tested ¹³		
	CCA-IWF Support for PEI and AEI Signaling Protocols	Required	5.3.2.9.5.5	Met		
	CCA-IWF Support for VoIP and TDM Protocol Interworking	Required	5.3.2.9.5.6	Met		

Table 2. SUT CR and FR Status (continued)

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status	
	Call Connection Agent Requirements (continued)				
	CCA Preservation of Call Ringing State during Failure Conditions	Required	5.3.2.9.6	Met	
	CCA Interactions with Transport Interface Functions	Required	5.3.2.10.3	Met	
	CCA Interactions with the EBC	Required	5.3.2.10.4	Met	
	CCA Support for Admission Control	Required	5.3.2.10.5	Met	
7	CCA Support for UFS	Required	5.3.2.10.6	Met	
	CCA Support for IA	Required	5.3.2.10.7	Met	
	CCA Interaction with EIs	Required	5.3.2.10.10	Met	
	CCA Support for AS Voice and Video	Required	5.3.2.10.11	Partially Met ¹¹	
	CCA Interactions with Service control Functions	Required	5.3.2.10.12	Met	
	CCA Interworking between AS-SIP and SS7	Conditional	5.3.2.11	Not Tested ¹³	
	MG Requirements				
	Role of MG In LSC	Required	5.3.2.12.3.1	Partially Met ¹⁴	
	MG Support for ASAC	Required	5.3.2.12.4.1	Met	
	MG and IA Functions	Required	5.3.2.12.4.2	Met	
	MG Interaction with Service Control Function	Required	5.3.2.12.4.3	Met	
	MG Interactions with IP Transport Interface Functions	Required	5.3.2.12.4.4	Met	
	MG-EBC interactions	Required	5.3.2.12.4.5	Met	
	MG IP-Based PSTN Interface Requirements	Conditional	5.3.2.12.4.7	Not Tested ¹³	
	MG Interaction with EIs	Required	5.3.2.12.4.8	Met	
	MG support for User Features and Services	Required	5.3.2.12.4.9	Met	
8	MG Interface to TDM	Required	5.3.2.12.5	Met	
0	MG Interface to TDM Allied and Coalition	Conditional	5.3.2.12.6	Not Tested ¹³	
	MG Interface to TDM PSTN in US	Required	5.3.2.12.7	Met	
	MG Interfaces to TDM PSTN OCONUS	Required	5.3.2.12.8	Met	
	MG Support for CCS7	Conditional	5.3.2.12.9	Not Tested ¹³	
	MG Support for ISDN PRI Trunks	Required	5.3.2.12.10	Met	
	MG Support for CAS Trunks	Conditional	5.3.2.12.11	Met	
	MG requirements for VoIP Internal Interfaces	Required	5.3.2.12.12	Met ¹⁴	
	MG Echo Cancellation	Required	5.3.2.12.13	Met	
	MG Clock Timing	Required	5.3.2.12.14	Met	
	MGC-MG CCA Functions	Required	5.3.2.12.15	Met	
	MG ITU-T V.150.1	Required	5.3.2.12.16	Met ¹⁵	
	MG Preservation of Call Ringing during Failure	Required	5.3.2.12.17	Met	
	SG Requirements				
9	SG and CCS7 network Interactions	Conditional	5.3.2.13.5.1	Not Tested ¹³	
	SG Interactions with CCA	Conditional	5.3.2.13.5.2	Not Tested ¹³	
	SG Interworking Functions	Conditional	5.3.2.13.5.3	Not Tested ¹³	
	WWNDP Requirements				
10	WWNDP	Required	5.3.2.16	Met	
	DSN WWNDP	Required	5.3.2.16.1	Met	
11	Commercial Cost Avoidance				
11	Commercial Cost Avoidance	Required	5.3.2.23	Met ^{16, 17}	
12	AS-SIP Based for External Devices (Voicemail, Unified Messaging, and Automated Receiving Devices)				
	AS-SIP Requirements for External Interfaces	Conditional	5.3.2.24	Not Tested ¹³	
	•			•	

Table 2. SUT CR and FR Status (continued)

CR/FR ID	Capability/Function	Applicability ¹	UCR Reference	Status
13	Precedence Call Diversion			
13	Precedence Call Diversion	Required	5.3.2.25	Met
	Attendant Station Features			
	Precedence and Preemption	Required	5.3.2.26.1	Met
	Call Display	Required	5.3.2.26.2	Met
14	Class of Service Override	Required	5.3.2.26.3	Met
14	Busy Override and Busy Verification	Required	5.3.2.26.4	Met
	Night service	Required	5.3.2.26.5	Met
	Automatic Recall of Attendant	Required	5.3.2.26.6	Met
	Calls in Queue to the Attendant	Required	5.3.2.26.7	Met
	AS-SIP Requirements			
	SIP Requirements for AS-SIP Signaling Appliances and AS-SIP EIs	Required	5.3.4.7	Met
	SIP Session Keep-Alive Timer	Required	5.3.4.8	Met
	Session Description Protocol	Required	5.3.4.9	Met
	Precedence and Preemption	Required	5.3.4.10	Met
	Video Telephony – General Rules	Required	5.3.4.12	Not Met ¹¹
	Calling Services	Required	5.3.4.13	Met
15	SIP Translation Requirements for Inter-working AS-SIP Signaling Appliances	Required	5.3.4.14	Met
	Relevant Timers for the Terminating Gateway and the Originating Gateway	Required	5.3.4.15	Met
	SIP Requirements for Interworking AS-SIP Signaling Appliances	Required	5.3.4.16	Met
	Keep-Alive Timer Requirements for Interworking AS-SIP Signaling Appliances	Required	5.3.4.17	Met
	Precedence and Preemption Extensions for Interworking AS-SIP Signaling Appliances	Required	5.3.4.18	Met
	Supplementary Services	Required	5.3.4.19	Partially Met ³
16	IPv6 Requirements			
10	Product Requirements	Required	5.3.5.4	Met ¹⁸
	NM			
	LSC Management Function	Required	5.3.2.7.2.6	Met
	VVoIP NMS Interface Requirements	Required	5.3.2.4.4	Met
17	General Management requirements	Required	5.3.2.17.2	Met
2.	Requirement for FCAPS Management	Required	5.3.2.17.3	Met
	NM requirements of Appliance Functions	Required	5.3.2.18	Met ¹⁹
	Accounting Management	Required	5.3.2.19	Met ¹⁹

NOTES:

^{1.} The annotation of 'required' refers to a high-level requirement category. The applicability of each sub-requirement is provided in Reference (e), Enclosure 3.

^{2.} The SUT correctly class marks calls based on the precedence level dialed; however, the DSCP values are not configurable from 0-63 as required by UCR 2008, Change 2. The TEO dual-stack IPv6 preferred IP phone tags outgoing voice media packets with a DSCP value of 49 (routine) for all precedence levels. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.

Table 2. SUT CR and FR Status (continued)

NOTES (continued):

- 3. During the original interoperability testing, the SUT met all critical CRs & FRs with one minor exception: In a 3-way conference, the SUT did not classmark the conference at the highest precedence level of each leg of the conference. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
- 4. The SUT experiences one way audio when an IP or analog EI places a call to another switch on hold. The SUT drops the call when a BRI EI places a call to another switch on hold. These issues do not occur if the other switch places the call on hold. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
- 5. The SUT attended transfer calls fail. The first two legs of the call are established and the analog EI can hook flash back and forth between the parties; however, when the attended transfer is attempted by the analog EI hanging up, the attended transfer fails. DISA has accepted and approved the vendor's POA&M and adjudicated this discrepancy as having a minor operational impact.
- 6. During the original interoperability testing, the SUT did not support separate ASAC counts for video and voice. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
- 7. The SUT did not initially support the LSC failover requirements in UCR 2008, Change 2, paragraph 5.3.2.3.2, but demonstrated compliance during DTR 2 testing. DISA NS2 supported a multi-vendor failover test event at JITC from 8 through 19 October 2012 to newly drafted failover requirements in the UCR. The SUT met these new requirements, which will be included in the next version of the UCR (UCR 2013).
- 8. The SUT does not support ITU-T G.722.1 voice codec. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by December 2012.
- 9. The SUT only supports voice PEIs. The vendor did not support AEI voice capability. This was adjudicated by DISA to have a minor operational impact since there were no certified AEI video end instruments on the UC APL.
- 10. The vendor did not provide soft phones with the SUT for interoperability testing; therefore, they were not tested. Soft phones are a conditional requirement.
- 11. The SUT offers video; however, it is not covered under this certification. JITC only conducted limited video testing on the SUT with Polycom video EIs. Due to the fact that their video EI is not IPv6 capable and did not offer a GA load it did not meet this requirement. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by February 2013. The vendor has stated the initial firmware will be available in 2012 and the GA load will be available in 2013. The SUT is not certified for use with video EIs.
- 12. The SUT does not comply with the requirement to be configurable to set interval times to verify status of its IP EI's with the default set at five minutes. This was adjudicated by DISA as having a minor operational impact with the intent to change the requirement to conditional in next UCR update.
- 13. This is a conditional requirement and was not tested.
- 14. The SUT met this requirement with VoIP PEIs only.
- 15. During the original interoperability testing, the SUT did not fully comply with the requirements for ITU-T V.150.1. For FAX (ITU-T T.38 transitions) the LSC maintains the session protocol (UDP). However, the port is changed when moving from VoIP to FoIP. The LSC sends a REINVITE (per MGC transitioning rules) with the new port number; therefore, SIP compliant devices (including the EBC) should follow the port change. The port selection is currently configurable for MoIP because MoIP does not use the REINVITE method for transition. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.

 16. During the original interoperability testing, the SUT did not support LDAP V3 for CCA. Transition to the LDAP format was in progress and was expected to be functional by late June 2011. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.
- 17. The vendor submitted an LoC with the following discrepancy: The SUT does not support the Commercial Cost Avoidance LDAP database keep-alive messaging format IAW UCR 2008, Change 2, section 5.3.2.28.5.2.5. The vendor states the frequency of the keep-alive messages is too frequent. DISA adjudicated this as minor and stated their intent to change the requirement in UCR 2013.
- 18. The vendor submitted an IPv6 LoC with noted discrepancies which include: The SUT is not fully compliant with IPv6 neighbor discovery IAW RFC 4861. This was adjudicated by DISA as having a minor operational impact with a vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8. 19. During the original interoperability testing, the vendor submitted an NM LoC with the following noted discrepancies: The SUT does not fully comply with the CDR and QoS requirements per UCR 2008, Change 2, section 5.3.2.19.2.1.x. The SUT does not comply with the Management Requirements for ASAC per UCR 2008, Change 2, section 5.3.2.18.2. These were adjudicated by DISA as having a minor operational impact with vendor POA&M to fix by 1 July 2012. This discrepancy was fixed and successfully tested with DTR 1, which included an update on the SUT from version 4.0AR3P7 to 4.0AR3P8.

Table 2. SUT CR and FR Status (continued)

AEI	D: AS-SIP End Instrument	IWF	Interworking Function
Apl	Approved Products List	JITC	Joint Interoperability Test Command
AS	Assured Services	LDAP	Lightweight Directory Access Protocol
ASAC	Assured Services Admission Control	LoC	Letter of Compliance
AS-SIP	Assured Services Session Initiation Protocol	LSC	Local Session Controller
BRI	Basic Rate Interface	MG	Media Gateway
CAS	Channel Associated Signaling	MGC	Media Gateway Controller
CCA	Call Connection Agent	MoIP	Modem over Internet Protocol
CCS7	Common Channel Signaling 7	NM	Network Management
CDR	Call Detail Records	NMS	Network Management System
CR	Capabilities Requirement	OCONUS	Outside the Continental United States
DISA	Defense Information Systems Agency	PBAS	Precedence-Based Assured Service
DSCP	Differentiated Services Code Point	PEI	Proprietary End Instrument
DSN	Defense Switched Network	POA&M	Plan of Actions and Milestones
DTR	Desktop Review	PRI	Primary Rate Interface
EBC	Edge Boundary Controller	PSTN	Public Switched Telephone Network
EI	End Instrument	QoS	Quality of Service
FCAPS	Fault, Configuration, Accounting, Performance, and	RFC	Request for Comments
	Security	SG	Signaling Gateway
FoIP	Fax over Internet Protocol	SIP	Session Initiation Protocol
FR	Functional Requirement	SS7	Signaling System Number 7
GA	General Available	SUT	System Under Test
HDX	High Density Exchange	TDM	Time Division Multiplexing
IA	Information Assurance	UC	Unified Capabilities
IAW	in accordance with	UCR	Unified Capabilities Requirements
ID	Identification	UDP	User Datagram Protocol
IP	Internet Protocol	UFS	User Features and Services
IPv6	Internet Protocol version 6	VoIP	Voice over Internet Protocol
ISDN	Integrated Services Digital Network	VVoIP	Voice and Video over Internet Protocol
ITU-T	International Telecommunication Union -	WAN	Wide Area Network
	Telecommunication Standardization Sector	WWNDP	World Wide Numbering and Dialing Plan

5. No detailed test report was developed in accordance with the Program Manager's request. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) email. More comprehensive interoperability status information is available via the JITC System Tracking Program (STP). STP is accessible by .mil/gov users on the NIPRNet at https://stp.fhu.disa.mil. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT) at http://jit.fhu.disa.mil (NIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at http://jitc.fhu.disa.mil/tssi. Due to the sensitivity of the information, the Information Assurance Accreditation Package (IAAP) that contains the approved configuration and deployment guide must be requested directly through government civilian or uniformed military personnel from the Unified Capabilities Certification Office (UCCO), e-mail: disa.meade.ns.list.unified-capabilities-certification-office@mail.mil. All associated data is available on the DISA UCCO website located at http://www.disa.mil/ucco/.

6. The JITC point of contact is Mr. Cary Hogan, DSN 879-2589, commercial (520) 538-2589, FAX DSN 879-4347, or e-mail to cary.v.hogan.civ@mail.mil. JITC's mailing address is P.O. Box 12798, Fort Huachuca, AZ 85670-2798. The UCCO tracking number for the SUT is 0932802.

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Enclosure a/s

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ADDITIONAL REFERENCES

- (c) Office of the Assistant Secretary of Defense, "Department of Defense Unified Capabilities Requirements 2008, Change 2," 31 December 2010
- (d) Joint Interoperability Test Command, "Unified Capabilities Test Plan (UCTP)," Draft
- (e) Joint Interoperability Test Command, Memo, JTE, "Special Interoperability Test Certification of the REDCOM High Density Exchange (HDX)TM Local Session Controller (LSC), Software Release 4.0 Revision 3 with Specified Patch Group 7 (4.0AR3P7)," 30 March 2012
- (f) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of REDCOM HDXTM Local Session Controllers, Version 4.0AR3 (TN# 0932802)," Draft
- (g) Joint Interoperability Test Command, "Information Assurance (IA) Assessment of REDCOM High Density Exchange (HDX) Release (Rel.) 4.0AR3P8 (Tracking Number 0932802)," Draft